black, conspicuous, exuriae mathed by a white dot surrounded by a whitivh ing. of scale extremely inconspicturs. Ne groups of ventral glands. 2 pairs of lobes. On twigs of orange seedinus from Japan (Cu:as). In all ith character this is almost exactly like $A$. ferniciosms, and would have been assumed to be that but for the locality and food-plant. It is amother " physiolorical species,"like A. coloratus or the West Indian form of $A$. aumufii. The true ferniciosus never attacks oranse thew in Califomiat, mor is it fonnd on the deciduons frittrees fiom Jap:an which have paseed through Mr. Craw's hands, nor in Takalushi's collections.

Chionaspis difficilis, n. sp.- $q$ scale about 2 mm. long, irregular, from round to subelongate, moderately convex, white; exuviate to one side, zod skin black or nearly so. Ist skin pale straw yellow. of scale white, tricarinate. $O$ orange-rufous, becomins blish-green when boiled in soda. Sgroups of ventral glands. catudolaterals +3 . ceplailolaterals $4-43$, median about 37. Nedian lobes large. diverging: second and third lobes notched; plates spine-like, large. On Ehaeagnus from Japan (Craw). This is a very Diaspis-like (Chionaspis.
C. latus, n. \&p.-Allied to C. braziliensis. with a tricarimate white $\delta$ acale, and a broad byriform red-brown $f$ scale. The broad Hat scale readily distinguinhes it. On leaves of oringe, 'Tokio, Jipan ('Takahashi).
C. bambusae, n. sp.- $O$ scale white. clongate-pyriform, exuriae pale straw yellow, second skin with an orange spot at the tip. In size, shape and color it is like $C$. vercciniz, but it differs in the number of glands in the ventral groups, etc. On leaves of bamboo, 'Tokio, Japan (Takaha-hi).

Mytilaspis carinatus, n. sp.- $f$ scales
something like . M. citricola. but marower and with : pronomenced median longitudinal keel. $f$ groups of ventral glands, of about $\downarrow$ orifices each. Lobes small. Some larse spine-like plates. Saccular slands along the pssidial margin. Rows of elonsate pores marking the obsolete aegments On a plant like Anthminm from Centmal America (Craw).
M. crawii, n. sp. - \& scale narrow, about $2 \frac{1}{3} \mathrm{~mm}$. long and $\frac{1}{2} \mathrm{~mm}$. wide, slightly curved. pale orange vellow, exuviae concolonous. Four groups of ventral glands. caudolaterals of 3 . ceplablolaterahs of + . Nedian lobes very large, roumbled at ends, their edges finely servate. Beneath the epidermin of leaves of Elatagnus from Japan (Craw).

Parlatoria theae, m. sp.- $f$ scales on bark, very inconspicumas, abont $\mathbf{I}_{\frac{3}{3}}$ mun. long. oval in outline, slishtly conves, pale ochreous. with the and win black or mearly so. Removed from the twig they leave a white mark. $q$ (after boiling) colorless, lobes pale ochreous. Median lohes trilobed. + sroupm or ventral gland, with a single median onn Caudolaterals S , cephalolaterals $20 . \mathrm{O}_{\boldsymbol{n}}$ tea-plant. Japan (Takahashi).
P. theae var. viridis $v$. nov. vel m, sp. - f scale about if mom. long, nearly circular, but the exuviae projecting at one side. Scale white with a more or less pronounced grayislu sellow tinge, exuvite dark greenish to black. of (in sodit) buish-green with the progidisl area pale orange and the rewion about the mouth suffused with brown. Five groups of ventral glands, catudolaterals 16 to 17 , cephalolaterals 9 to 16 , median 1 to $f$ On bark of twigs of an sratmental plant from Japan (Craw). Tlie tipe of the median lobes ase more produced than in theae.

## XI. Some Species of Oxybelus Found in New Mexico.

By T. D. A. COCKERELL AND C. F. BAKER.

Oxybelus quadricolor, n. sp.-Female: About 10 mm . long, black with red and
creamy-white markings, stiongly punctured.
llead rather large. somewhat broader than
long seen from in front, closely punctured. the punctures very fine and close on the face. Mandibles black, or so dark brown as to seem so. Pubescence short, and inconspicuous except on front, sordid silvery. A tubercle on vertex. Occiput simply punctate. Antennae with flagellum becoming dark red-dish-brown. Thoras closely punctured; prothorax with two elongate markson superior margin, and the tubercles, white; mesothorax with the anterior portion dull red, the red extending about as far backwards as the level of the tegulae in the median line, but laterally narrowly beyond the tegulae; on the red portion with a weak median carina. scutellum and postscutellum each with a median carina, that on the former rather weak. Squamae yellowish-white, with the external margins semi-transparent and radiately wrinkled, the terminal points stout and gently curved. Spine quite small, concave above, rapidly narrowed to an acute point, the sides straight. Metathorax above strongly, subreticulately, obliquely ridged; median area triangular, closed above, microscopically roughened within but shining and crossed by three or four weak transverse striae, acutely angled below, passing into a rather short median carina; lateral faces striato punctate, the striae subobsolete below. strong above. Tegulae shining orangebrown, with an opaque whitish spot on anterior half. Wings hyaline, nervures piceous, marginal cell bluntly pointed, the apex directed away from the costal margin. Legs black, spurs dark brown ; middle femora with a white spot at tip beneath; middle and posterior tibiae with a short white streak at base above, anterior tibiae with a very narrow white stripe extending abouttwo-thirds of the hength from the base but sometimes ohsolete. Abdomen with interrupted cream-colored hands on segments $1-4$; on the first segment the band is reduced to two transversely elongate patches, somewhat further apart than the transverse diameter of either; puncturing coarse and sparse on discs of segments, fitue and close about margins. Pygidium rufous.

Mab.-Santa Fe, N. M., July 6, 8895 , on a white flowered Umbellifer (Ckll., 3353). The specimen had previously visited an Asclepiad, as shown by the pollen masseadierent to the leg. Another example from Fort Collins, Colorado (Baker) differs in that the spine is longer, the points of the squamae more produced, and the puncturing coarser. Another from Las Cruces, N. M. (C. Risodes, I49).

Oxybelus heterolepis, n. sp.-Male : About 7 mm . long, closely but rather coarsely punctured. black with jellow markings. Head about as broad as long seen from in front, strongly punctured, front and face covered with silvery pile. A slight protuberance on the vertex, but no well defined tubercle. Mandibles pale yellow except the dark tips. Antennae with the terminal half of the flagelium becoming rufous. Thorax without any red, closely punctured. Prothorax entirely black, except the pale yellow tubercles, in the middle of which is a dark (really byaline) spot. Cheeks, pleurae and tubercles with short silvery pubescence: vertex and thorax above with short blach pubescence. Scutellum and post-scutellun each with a median carina, that on the latter somewhat prominent throughout its length. Squamate with long slightly curved terminal points, semitransparent, yellowish white. separated by a distance as great as the base of either. Spine moderately elongate, narrow, practically straight. parallel sided grooved above, brownish, with the tip rounded and entire. Metathoras reticulate above; median area short, smooth within, open ahove, roumded below and passing into a long median carina; lateral faces striatopunctate. Tegulae and extreme base of wing rufous, the former with an obscure whitish spot. Wings hyaline, nervures clark brown, marginal cell obliquely truncate. Legs black, with the apices of all the femora reddish yellow, the tibiae yellow externally, and the tarsi yellow becoming rufescent at ends. The yellow of the middle tibiae is at about its middle half interrupted by a
rounded incursion of the black．Abdomen with weak lateral spines on secments 3－6： finely punctured，shining．Broadly inter－ rupted yellow bands on segments $\mathrm{I}-5$ ，the interruption in each case talies the form of a broad wedge of black，so that the yellow marks come closest together at their distal margins，being thence obliquely truncate： this is most perceptible on the first two seg－ ments．

Hab．－Abuquerque，N．M．，June $30,1 \mathrm{~S} 95$ ， between the town and the University（Ckll．， 32．2）．

Var．defectus n．var．－Abdominal hands reduced to spots，rounded or mot obliquely truncate inwardy．The legs are darker， lighter portions inclining to rufescent in some specinens．Albuquerque（Ckll．．．3：3： 3243．3229．3239）．

O．heterolcpis wals taken at Abuquerque on June 30 in some numbers，almot surely on Howers of Fallugia puradoxa，though unfortunately no record wats kept of this． Most nearly related to packerrdii．In this species，however，the spine is not at all nar－ rowed towards the tip；the lateral faces of metathoras are very sparely punctured and the striae strong．It also differs in the shape of the squamae and the puncturing of the abdomen．If，on the examination of larger series，the var．defectus sloould prove distinct， it can be separated under the varietal mame．

Oxybelus trifidus，n．sp．－Male：About 4.5 mm ．long，black with dull orange mark－ ings，rather finely and closely punctured． Head about is broad as long seen from in front；front comparatively narrow，it and the face covered with silvery pile：vertex closely and roughly punctured；wo tubercle．Nan－ dibles yellow except the tips；terminal half of the Hagellum rufescent．Prothorax all black，the margins of the tubercles only， slightly pallid．Nesothoras and scutellum strongly and coarsely puactured，on the mesothoras posteriorly becoming striato－ punctate．Scute Hum and postscutellum each
with a median carina．Squanae veparated by a distance leas than their breadth；large， broad，white，semitransparent，with rather strong acute lateral point which are bent under the squamae and about equal their tip．． Spine short and very broad，of the rmargin－ atus type，but the emargination filled in by a broad plate，so that the spine becomes actually trifid，or one might say truncate with two notches．Metathoras above with atrong oblique ridges；median area ellipti－ cal，scabrous within，passing below into ： median carina of moderate length；latemal faces striato－rugose．Tegulae and extreme bases of wings orange rufous．Wings liya－ line，nervures brown，marginal cell obliquely truncate．Femora black except the orange－ rufous tips beneath．Tibite and tarsi dull orange－rufous，the middle and hind tibjae black on the inner side．Abdomen shiming black，very closely and finely punctured， short blurst spines on lateral margins of seg． ments 5 and 6 only．Narrow，interapted orange bands on segments I－4，those on 3 and 4 being linear，and very broadly inter－ rupted．Segments $1-2$ silvery margined posteriorly．

Hab．－Santa Fe，N．M．，Aug．1． 1 S95 （Ckll．，3997）．This species is perhatps as nearly related to mexicanus ats any．In the form of the spine and some other characters it differs from any described N．A．species．

Oxybelus coloradensis Baker．－$A$ speci－ men of this species taken at Las Craces （Ckil．， 2436 ），wat determined as emargin－ atus by Mr．Fos．

Oxybelus packardii Rob．－One at Albu－ querque（Ckll．，4533）．This was on Cleome servuluta，Aug．15，1895．At that dite mo heterolefis were found．

Oxybelus cornutus Rob．－Lats Cruces， N．M．．on Solictago canadensis Aug．2．，IS94 （Ckll．，zooz）and Albuquerque，N．M．，June 30,1895 ，with heterolepis．

Oxybelus quadrinotatus Say－Santa Fe， July and August；variable．

